

Set Name Query
side by side

*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE;
PLUR=YES; OP=AND*

<u>L11</u>	L10 and (endothelial)
<u>L10</u>	(brain adj extract) same (prion)
<u>L9</u>	L8 not L6
<u>L8</u>	L5 and (proliferation or expansion)
<u>L7</u>	L5 and (collagen adj I)
<u>L6</u>	L5 and (VEGF)
<u>L5</u>	((endothelial adj cell) adj culture) same (blood or mononuclear)
<u>L4</u>	L3 and (endothelial and mononuclear)
<u>L3</u>	Dzau-victor-J\$.in.
<u>L2</u>	Drau-victor-J\$.in.
<u>L1</u>	Hebbel-robert-P\$.in.

Hit Count Set Name
result set

2	<u>L11</u>
23	<u>L10</u>
35	<u>L9</u>
53	<u>L8</u>
1	<u>L7</u>
21	<u>L6</u>
97	<u>L5</u>
9	<u>L4</u>
29	<u>L3</u>
0	<u>L2</u>
1	<u>L1</u>

END OF SEARCH HISTORY

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSSS?

Status: Signing onto Dialog

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Welcome to DIALOG

Status: Connected

Dialog level 02.11.01D

Last logoff: 22nov02 16:30:37

Logon file001 25nov02 16:05:24

*** ANNOUNCEMENT ***

--File 515 D&B Dun's Electronic Business Directory is now online completely updated and redesigned. For details, see HELP NEWS 515.

--File 990 - NewsRoom now contains May 2002 to present records.
File 993 - NewsRoom archive contains 2002 records from January 2002-April 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002.

--Alerts have been enhanced to allow a single Alert profile to be stored and run against multiple files. Duplicate removal is available across files and for up to 12 months. The Alert may be run according to the file's update frequency or according to a custom calendar-based schedule. There are no additional prices for these enhanced features. See HELP ALERT for more information.

--U.S. Patents Fulltext (File 654) has been redesigned with new search and display features. See HELP NEWS 654 for information.

--Connect Time joins DialUnits as pricing options on Dialog. See HELP CONNECT for information.

--CLAIMS/US Patents (Files 340,341, 942) have been enhanced with both application and grant publication level in a single record. See HELP NEWS 340 for information.

--SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.

--Important news for public and academic libraries. See HELP LIBRARY for more information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

For information about the access to file 43 please see Help News43.

NEW FILES RELEASED

***Dialog NewsRoom - Current 3-4 months (File 990)

***Dialog NewsRoom - 2002 Archive (File 993)

***Dialog NewsRoom - 2001 Archive (File 994)

***Dialog NewsRoom - 2000 Archive (File 995)

***TRADEMARKSCAN-Finland (File 679)

***TRADEMARKSCAN-Norway (File 678)
***TRADEMARKSCAN-Sweden (File 675)

UPDATING RESUMED

***Delphes European Business (File 481)

RELOADED

***D&B Dun's Electronic Business Directory (File 515)
***U.S. Patents Fulltext 1976-current (File 654)
***Population Demographics (File 581)
***Kompass Western Europe (File 590)
***D&B - Dun's Market Identifiers (File 516)

REMOVED

CSA Files:

***Abstracts in New Technologies and Engineering (File 238)
***Aerospace Database (File 108)
***Aluminium Industry Abstracts (File 33)
***Applied Social Sciences Index and Abstracts (File 232)
***Aquatic Sciences and Fisheries Abstracts (File 44)
***ARTbibliographies Modern (File 56)
***Ceramic Abstracts (File 335)
***Conference Papers Index (File 77)
***Engineered Materials Abstracts (File 293)
***ISMEC: Mechanical Engineering Abstracts (File 14)
***Life Sciences Collection (File 76)
***Linguistics and Language Behavior Abstracts (File 36)
***LISA (Library & Information Science Abstracts) (File 61)
***Materials Business File (File 269)
***METADEX: Metals Science (File 32)
***Oceanic Abstracts (File 28)
***Pollution Abstracts (File 41)
***Sociological Abstracts (File 37)
***Water Resources Abstracts (File 117)

Other files:

***Chicago Tribune (File 632)
***Fort Lauderdale Sun Sentinel (File 497)
***The Orlando Sentinel (File 705)
***Newport News Daily Press (File 747)
***U.S. Patents Fulltext 1980-1989 (File 653)
***Washington Post (File 146)
***Books in Print (File 470)
***Court Filings (File 793)
***Publishers, Distributors & Wholesalers of the U.S. (File 450)
***State Tax Today (File 791)
***Tax Notes Today (File 790)
***Worldwide Tax Daily (File 792)

New document supplier

IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.

HIGHLIGHT set on as '*'

* **

**

File 1:ERIC 1966-2002/Nov 11
(c) format only 2002 The Dialog Corporation

Set Items Description

--- -----

Cost is in DialUnits

?b 155, 5, 73

25nov02 16:05:39 User259876 Session D436.1
\$0.35 0.101 DialUnits File1
\$0.35 Estimated cost File1
\$0.05 TELNET
\$0.40 Estimated cost this search
\$0.40 Estimated total session cost 0.101 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2002/Nov W3

***File 155: For updating information please see Help News155. Alert**
feature enhanced with customized scheduling. See HELP ALERT.

File 5:Biosis Previews(R) 1969-2002/Nov W3
(c) 2002 BIOSIS

***File 5: Alert feature enhanced for multiple files, duplicates**
removal, customized scheduling. See HELP ALERT.

File 73:EMBASE 1974-2002/Nov W3
(c) 2002 Elsevier Science B.V.

***File 73: Alert feature enhanced for multiple files, duplicates**
removal, customized scheduling. See HELP ALERT.

Set	Items	Description
---	-----	-----
?s (endothelial)	(s)	(blood or mononuclear)
	275006	ENDOTHELIAL
	4471889	BLOOD
	29	MONONUCLEAR
S1	54127	(ENDOTHELIAL) (S) (BLOOD OR MONONUCLEAR)
?s s1 (s)	(expanding or proliferating or proliferation or activating or activation)	
	54127	S1
	30150	EXPANDING
	61666	PROLIFERATING
	443194	PROLIFERATION
	143044	ACTIVATING
	1039899	ACTIVATION
S2	10903	S1 (S) (EXPANDING OR PROLIFERATING OR PROLIFERATION OR ACTIVATING OR ACTIVATION)
?s s2 and (endothelial (w) cell (w) culture)		
	10903	S2
	275006	ENDOTHELIAL
	5915079	CELL
	1103935	CULTURE
	560	ENDOTHELIAL(W)CELL(W)CULTURE
S3	26	S2 AND (ENDOTHELIAL (W) CELL (W) CULTURE)
?rd		
...completed examining records		
S4	13	RD (unique items)
?s s4 and (collagen or VEGF)		
	13	S4
	241395	COLLAGEN
	19343	VEGF
S5	0	S4 AND (COLLAGEN OR VEGF)
?s s4 and (buffy (w) coat)		
	13	S4
	4685	BUFFY
	43128	COAT
	4070	BUFFY(W)COAT
S6	0	S4 AND (BUFFY (W) COAT)
?t s4/3,k/all		

4/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

13267497 21643329 PMID: 11785183

[Adhesion of human granulocytes and T lymphocytes to vascular endothelial cells after stimulation with Bacteroides fragilis endotoxin and

enterotoxin]

Przyleganie ludzkich granulocytow i limfocytow T do komorek srodblonka naczyniowego po stymulacji endotoksyna i enterotoksyna Bacteroides fragilis.

Rokosz A; Meisel-Mikolajczyk F; Malchar C; Kot K; Zawidzka E; Nowaczyk M; Gorski A

Katedra i Zaklad Mikrobiologii Lekarskiej AM w Warszawie.

Medycyna doswiadczalna i mikrobiologia (Poland) 2001, 53 (3) p259-67

, ISSN 0025-8601 Journal Code: 0210575

Document type: Journal Article ; English Abstract

Languages: POLISH

Main Citation Owner: NLM

Record type: Completed

The aim of presented study was to estimates the number of human granulocytes and T lymphocytes adhering to 1 mm² of vascular *endothelial* *cell* *culture* stimulated by Bacteroides fragilis endotoxins (LPS) and enterotoxin (BFT). HMEC-1 cells were activated with bacterial preparations at the concentration of 10 (micrograms/ml for 4 and 24 hours. Granulocytes and T lymphocytes were isolated from peripheral *blood* of healthy *blood* donors. The adhesion tests of granulocytes and adhesion tests of resting and activated with PMA (at the concentration of 10 ng/ml) T lymphocytes to ...

...the endothelium, was determined using inverted microscope (magnification 200x). The results were presented as the number of viable cells adhering to 1 mm² of the *endothelial* *cell* *culture*. The results of experiments indicate that granulocytes and T lymphocytes (resting and after *activation* with PMA even in greater number) adhere to the *endothelial* cells stimulated by B. fragilis endotoxins and enterotoxin. B. fragilis toxins are weaker stimulants of human leukocyte adhesion to the HMEC-1 cells than E. coli O55:B5 LPS. B. fragilis LPS and BFT preparations stimulate *endothelial* cells to the adhesion of granulocytes in similar manner, whereas the *activation* of vascular endothelium to the adhesion of T lymphocytes is differentiated.

4/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

11217132 21240834 PMID: 11341797

Human T-cell-porcine endothelial cell interactions induce human Th1 cytokines and porcine activation markers.

Coleman T S; Pittman H K; Purser S M; Haisch C E; Verbanac K M

Department of Surgery, The Brody School of Medicine at East Carolina University, Greenville, North Carolina 27858, USA.

Journal of surgical research (United States) May 15 2001, 97 (2)

p184-91, ISSN 0022-4804 Journal Code: 0376340

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... xenotransplantation, there is a need to examine human anti-pig cellular reactions. The objective of this study is to use human anti-porcine mixed lymphocyte *endothelial* *cell* *culture* (MLEC) to investigate cell interactions, cross-species molecular compatibilities, and the induction of human cytokines and porcine *activation* markers. METHODS: Human peripheral *blood* mononuclear cells or enriched CD4+ T cells depleted of professional antigen-presenting cells were cultured with resting pig aortic *endothelial* cells in the absence of exogenous cytokines. T-cell proliferative responses were measured and PAEC were monitored for cell surface markers by flow cytometry. Culture...

... adhesion molecules appear to cross the xenograft barrier and play a critical role in T-cell - PAEC interactions. Such interactions are likely

to affect VEC *activation* and immune responses to porcine xenografts in vivo. Copyright 2001 Academic Press.

4/3,K/3 (Item 3 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

10548915 20079366 PMID: 10611541

Production of soluble P-selectin by platelets and endothelial cells.

Semenov A V; Romanov Y A; Loktionova S A; Tikhomirov O Y; Khachikian M V; Vasil'ev S A; Mazurov A V

Institute of Experimental Cardiology, Cardiology Research Center, Russian Ministry of Health, Moscow, 121552, Russia.

Biochemistry. Biokhimii a (RUSSIA) Nov 1999, 64 (11) p1326-35,

ISSN 0006-2979 Journal Code: 0376536

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The distribution of a soluble form of a cell adhesion molecule, P-selectin, in human platelets and cultivated *endothelial* cells has been studied by enzyme-linked immunosorbent assay (ELISA). The concentration of soluble P-selectin in the *blood* plasma of healthy donors and patients with abnormal platelet count has also been determined. P-selectin was measured in the Triton X-100 lysate of platelets and *endothelial* cells (total P-selectin), in the 100,000g supernatant obtained after sedimentation of the membrane fraction from the homogenate of sonicated platelets and *endothelial* cells (intracellular soluble P-selectin), in the supernatant of activated and nonactivated platelets, and in the culture medium of *endothelial* cells. A soluble form of P-selectin which did not coprecipitate with the membrane fraction was detected in platelets and accounted for approximately 10% of the total P-selectin. Platelet *activation* by thrombin, ADP, or a thromboxane A2 analog resulted in the secretion of 30-50% of the intracellular soluble P-selectin. Measurements of P-selectin in *endothelial* *cell* *culture* revealed that endothelium from aorta contained about twofold more P-selectin than endothelium from umbilical vein. Intracellular soluble P-selectin was identified in both types of *endothelial* cells. In *endothelial* cells from the umbilical vein this form made up approximately 10% of the total P-selectin. Soluble P-selectin was also detected in the medium of cultivated *endothelial* cells, where its content correlated with the total cellular P-selectin. Concentration of P-selectin in *blood* plasma strongly correlated with the platelet count in the *blood* of healthy donors and patients with thrombocytosis and thrombocytopenia. These data indicate that platelets serve as one of the main source of plasma P-selectin...

... be involved in plasma P-selectin production. Thus, in vitro experiments as well as measurements of plasma P-selectin have shown that both platelets and *endothelial* cells can produce a soluble form of the protein. Platelet-derived soluble P-selectin and plasma P-selectin were shown to react with antibodies against...

4/3,K/4 (Item 4 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

09660065 98089908 PMID: 9428307

Endothelin B receptor-mediated increase of cerebral blood flow in experimental pneumococcal meningitis.

Koedel U; Lorenzl S; Gorriz C; Arendt R M; Pfister H W

Department of Neurology, Ludwig-Maximilians-University of Munich, Klinikum Grosshadern, Germany.

Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism (UNITED STATES)

Jan 1998, 18 (1) p67-74, ISSN 0271-678X Journal Code: 8112566

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Study investigates the role of endothelin (ET) receptors in mediating early changes in cerebral *blood* flow--as measured by laser Doppler flowmetry (CBFLDF)--during experimental pneumococcal meningitis. Meningitis was induced with heat-killed pneumococci and confirmed by a significant increase in CBFLDF (baseline 100%; 225.3 +/- 21.8% after 6 hours; mean +/- SD), intracranial pressure (ICP), brain water content, and white *blood* cell count in the CSF. Intravenous administration of the selective endothelin B (ETB) receptor antagonist BQ-788 immediately before pneumococcal challenge (but not 4 hours...

... a selective endothelin A receptor antagonist, had no significant effect on ICP and brain water content, but augmented the increase in CBFLDF and CSF white *blood* cell count. Since ET is known to trigger the release of nitric oxide (NO) by ETB receptor *activation*, we examined specific ET-NO interactions in primary rat cerebromicrovascular *endothelial* cells after stimulation with heat-killed pneumococci. Pneumococci induced a significant increase in both ET and NO concentrations in *endothelial* *cell* *culture* medium. Treatment with phosphoramidon, an inhibitor of the endothelin-converting enzyme, prevented the production of endothelin and markedly reduced NO generation. Our data provide evidence...

4/3,K/5 (Item 5 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

09053836 96431622 PMID: 8834704

Correlated plasma elastase and sera cytotoxicity in eclampsia. A possible role of endothelin-1 induced neutrophil activation in preeclampsia-eclampsia.

Halim A; Kanayama N; El Maradny E; Maehara K; Bhuiyan A B; Terao T
Department of Obstetrics and Gynecology, Hamamatsu University School of Medicine, Japan.

American journal of hypertension : journal of the American Society of Hypertension (UNITED STATES) Jan 1996, 9 (1) p33-8, ISSN 0895-7061
Journal Code: 8803676

Document type: Clinical Trial; Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

The *activation* of neutrophils was studied in preeclampsia (n = 10) and eclampsia (n = 20) compared to normotensive controls (n = 10) and nonpregnant essential hypertensives (n = 10). Plasma...

... eclamptic cases compared to essential hypertensive (0.53 +/- 0.27 microgram/mL; P = .01) patients. We analyzed the correlation among elastase values, systolic (SBP), mean *blood* pressures (MBP), endothelin-1 (ET-1) levels and sera cytotoxicity (as measured by fura-2 release from human umbilical venous *endothelial* *cell* *culture*) in eclamptic cases. SBP and MBP were significantly correlated with plasma elastase levels in preeclampsia (r = 0.67, 0.63, respectively; P < .03) and eclampsia...

...neutrophil cultures dose and time dependently. Cytotoxicity of eclamptic sera correlated (P < .001) to the corresponding plasma elastase values. Therefore, this study suggests that neutrophil *activation* and ET-1 induced neutrophil *activation* occurs in this disease.

4/3,K/6 (Item 6 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

08986763 96358724 PMID: 8719694

Histamine, ZO-1 and increased blood-retinal barrier permeability in diabetic retinopathy.

Gardner T W

Transactions of the American Ophthalmological Society (UNITED STATES)
1995, 93 p583-621, ISSN 0065-9533 Journal Code: 7506106

Contract/Grant No.: EY00331; EY; NEI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

PURPOSES: First, to develop an improved retinal capillary *endothelial*
cell *culture* system which exhibits some of the physiologic features of
the bloodretinal barrier; second, to use this model to determine how
histamine and chemical conditions of...

... tight junction protein, ZO-1; and third, to discuss application of the
Henle-Koch postulates to the problem of diabetic retinopathy. METHODS:
Bovine retinal capillary *endothelial* cells were exposed to varying serum
and growth factor concentrations, as well as astrocyte-conditioned medium,
in order to establish a model of the *blood*-retinal barrier. Cells were
also exposed to varying concentrations of histamine, and of insulin and
glucose. The expression of ZO-1 tight junction protein was determined by
immunocytochemistry and immunoblotting. RESULTS: Modified concentrations of
growth factors reduced *endothelial* cell *proliferation*, without reducing
viability. Astrocyte conditioned medium increased ZO-1 protein content.
Histamine reduced ZO-1 protein content. Both high glucose (20mM) and low
insulin (10...

... to control conditions (5mM glucose and 10(-9) M insulin). CONCLUSIONS:
Control of culture conditions results in a more physiologic in vitro model
of the *blood*-retinal barrier. Soluble factors from astrocytes promote
tight junction formation. Both histamine and chemical conditions of
diabetes diminish tight junction formation. These factors may mediate
blood-retinal barrier breakdown in diabetic retinopathy. Henle-Koch
postulates for diabetic retinopathy are presented.

4/3,K/7 (Item 7 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

08458286 95216119 PMID: 7701587

**Evidence of noninvolvement of swine MHC class II in the in vitro
proliferative response of human lymphocytes to porcine endothelial cells.**

Vallee I; Watier H; Thibault G; Salmon H; Gruel Y; Lebranchu Y; Bardos P
Groupe Interactions Hote-Greffon, Faculte de Medecine, Tours, France.

Transplantation (UNITED STATES) Mar 27 1995, 59 (6) p897-901, ISSN
0041-1337 Journal Code: 0132144

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Successful pig-to-human xenotransplantation may expose swine endothelium
to the human immune system. Since *endothelial* MHC class II expression is
crucial in the genesis of an allogeneic lymphocyte response, the
involvement of porcine MHC (SLA) class II molecules in the induction of
human lymphocyte *proliferation* was studied. When cocultured with a
confluent monolayer of irradiated porcine aortic *endothelial* cells
(PAEC), human peripheral *blood* mononuclear cells (PBMC) incorporated
tritiated thymidine. Monocyte depletion strongly reduced the magnitude of
the lymphocyte proliferative response. Resting cultured PAEC were SLA class
II-negative and an induction of these molecules during the xenogeneic mixed
lymphocyte *endothelial* *cell* *culture* (XMLEC) was not observed.
Moreover, the addition of an antibody directed against the SLA-DR molecule

was without effect. Lymphocyte *proliferation* was also studied in response to SLA class II-positive stimulating cells--either human TNF-alpha-stimulated PAEC or porcine splenocytes. Induction of SLA class...

... These results suggest (1) that SLA class II molecules are not involved in the induction of the human lymphocyte proliferative response and (2) that the *endothelial* nature of the stimulating cells plays a key role in this *proliferation*.

4/3,K/8 (Item 8 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

07141479 92073363 PMID: 1961740

Inhibition of the activation of Hageman factor (factor XII) by human vascular *endothelial* *cell* *culture* supernates.

Ratnoff O D; Everson B; Embury P; Ziats N P; Anderson J M; Emanuelson M M; Malemud C J

Department of Medicine, Case Western Reserve University School of Medicine, Cleveland, OH 44106.

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Dec 1 1991, 88 (23) p10740-3, ISSN 0027-8424
Journal Code: 7505876

Contract/Grant No.: HL01661; HL; NHLBI; HL27277; HL; NHLBI; HL33849; HL; NHLBI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Inhibition of the activation of Hageman factor (factor XII) by human vascular *endothelial* *cell* *culture* supernates.

The supernatant fluid (conditioned medium) of cultured human vascular *endothelial* cells inhibits *activation* of Hageman factor (factor XII), whether by ellagic acid, bovine brain sulfatides, or bismuth subgallate; inhibition appears to be a property of one or more proteins in the culture supernates. This phenomenon may contribute to maintaining the fluidity of circulating *blood* by inhibiting surface *activation* of the intrinsic pathway of coagulation.

4/3,K/9 (Item 9 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

04049730 83038602 PMID: 6752880

[Thrombogenic properties of the vessel and their inhibition]

Proprietes thrombogeniques du vaisseau et leur inhibition.

Cazenave J P; Klein-Soyer C; Beretz A

Nouvelle revue francaise d'hematologie (GERMANY, WEST) 1982, 24 (3)
p167-71, Journal Code: 7909092

Document type: Journal Article ; English Abstract

Languages: FRENCH

Main Citation Owner: NLM

Record type: Completed

Vascular thrombosis is the response to injury of *blood* and the vessel wall. Normal endothelium is a non thrombogenic surface and is transformed into a thrombogenic surface by *endothelial* injury, the first step in thrombosis and in the development of atherosclerosis and its thrombotic complications. Many agents may injure the *endothelial* cells leading to at least three types of lesions: *endothelial* desquamation, local increase in *endothelial* turnover without de-endothelialization, *endothelial* dysfunction. The study of the factors controlling the functions of normal *endothelial* cells, their *proliferation* and their pathological modifications is possible with the use of human *endothelial* *cell* *culture* . Local generation of thrombin increases the thrombogenicity of

the subendothelium and the accumulation of platelets, an effect inhibited by heparin. Thrombin binds specifically to the...

... by aspirin increases the size of the thrombus containing platelets and fibrin. The thrombogenic response of the vessel wall varies according to the nature of *endothelial* injury: a lesion causing removal of the endothelium and followed by adhesion of a single layer of platelets; chronic or repeated injury giving rise to...

4/3,K/10 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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13958226 BIOSIS NO.: 200200587047

Tissue response and biomaterial integration: The efficacy of in vitro methods.

AUTHOR: Kirkpatrick C J(a); Krump-Konvalinkova V; Unger R E; Bittinger F; Otto M; Peters K

AUTHOR ADDRESS: (a)Institute of Pathology, Johannes Gutenberg University, Langenbeckstr. 1, D-55101, Mainz**Germany E-Mail: kirkpatrick@pathologie.klinik.uni-mainz.de

JOURNAL: Biomolecular Engineering 19 (2-6):p211-217 August, 2002

MEDIUM: print

ISSN: 1389-0344

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Implantation involves tissue trauma, which evokes an inflammatory response, coupled to a wound healing reaction, involving angiogenesis, fibroblast *activation* and matrix remodelling. Until now the type and extent of such reactions to give optimal integration of various biomaterials are practically unknown. Three principal fields...

...better: studies on explanted biomaterials, animal models and relevant in vitro techniques. This paper will present examples of the latter field and the application of *endothelial* cell (EC) culture systems to study the effects of important tissue (e.g. pro-inflammatory cytokines, chemokines) and material (e.g. metal ions, particulate debris) factors on the regulation of the inflammatory and angiogenic response. A central feature is the use of microvascular *endothelial* cells (MEC), which can be used in both 2-and 3-dimensional (3-D) assays. We have also used genetic manipulation to develop a permanent...

...drug delivery systems (DDS). Of particular interest is the targeting of the central nervous system, our approach being to establish a human model of the *blood*-brain barrier (BBB). A mainstay of our scientific philosophy is that such in vitro methods can make an important contribution to understanding biological reactions at...

...METHODS & EQUIPMENT: *endothelial* *cell* *culture* system

4/3,K/11 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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09821299 BIOSIS NO.: 199598276217

Induction of monocyte chemoattractant protein-1 synthesis in human monocytes during transendothelial migration in vitro.

AUTHOR: Takahashi Masafumi; Masuyama Jun-Ichi(a); Ikeda Uichi; Kasahara Tadashi; Kitagawa Sei-Ichi; Takahashi Yu-Ichi; Shimada Kazuyuki; Kano Shogo

AUTHOR ADDRESS: (a)Dep. Clin. Immunol., Jichi Med. Sch., Minamikawachi-machi, Tochigi 329-04**Japan

JOURNAL: Circulation Research 76 (5):p750-757 1995

ISSN: 0009-7330

DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Monocyte chemoattractant protein-1 (MCP-1, or monocyte chemotactic and *activating* factor) plays important roles in the recruitment of monocytes and thus in the development of atherosclerosis. In this study, we determined whether MCP-1 synthesis was induced by the cellular interaction between monocytes and *endothelial* cells during the process of transendothelial migration. We found that when human peripheral *blood* monocytes (2.5 times 10⁶ cells) and umbilical vein *endothelial* cells (HUVECs; 5.0 times 10⁵ cells) were cocultured for 5 hours, 7.9 ng/mL MCP-1 was secreted into the medium, whereas...

...HUVEC monolayers as well as the HUVECs themselves expressed MCP-1 protein. However, nonadherent monocytes failed to express it. This finding suggests that the monocyte-*endothelial* cell adhesive interaction results in an MCP-1-inductive signal to each cell type. MCP-1 expression by migrated monocytes may indicate that monocytes are...

MISCELLANEOUS TERMS: ...UMBILICAL VEIN *ENDOTHELIAL* *CELL* *CULTURE*

4/3,K/12 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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07419006 BIOSIS NO.: 000091024995

**HEPARANASE ACTIVITY EXPRESSED BY PLATELETS NEUTROPHILS AND LYMPHOMA CELLS
RELEASES ACTIVE FIBROBLAST GROWTH FACTOR FROM EXTRACELLULAR MATRIX**

AUTHOR: ISHAI-MICHAELI R; ELDOR A; VLODAVSKY I

AUTHOR ADDRESS: DEP. ONCOL., HADASSAH-HEBREW UNIVERSITY HOSPITAL,
JERUSALEM, ISRAEL 91120.

JOURNAL: CELL REGUL 1 (11). 1990. 833-842. 1990

CODEN: CELRE

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: Incubation of platelets, neutrophils, and lymphoma cells with Descemet's membranes of bovine corneas and with the extracellular matrix (ECM) produced by cultured corneal *endothelial* cells resulted in release of basic fibroblast growth factor (bFGF), which stimulated the *proliferation* of 3T3 fibroblasts and vascular *endothelial* cells. Similar requirements were observed for release of endogenous bFGF stored in Descemet's membrane and of exogenous bFGF sequestered by the subendothelial ECM. Release...

...heparan sulfate side chains by this endo-.beta.-D-glucuronidase is thought to play an important role in cell invasion, particularly in the extravasation of *blood*-borne tumor cells and activated cells of the immune system. We propose that both heparanase and ECM-resident bFGF may modulate the cell response to...

DESCRIPTORS: BOVINE CORNEA DESCMET'S MEMBRANE CORNEAL *ENDOTHELIAL* *CELL* *CULTURE* 3T3 FIBROBLASTS VASCULAR ENDOTHELIAL CELLS BLOOD-BORNE CELL EXTRAVASATION TUMOR DEVELOPMENT ACTIVATED IMMUNE CELL WOUND HEALING INFLAMMATION HEPARAN SULFATE SIDE CHAIN DEGRADATION CELL INVASION NEOVASCULARIZATION

4/3,K/13 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
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02142659 EMBASE No: 1982183775

Thrombogenic properties of the vessel wall and their inhibition
PROPRIETES THROMBOGENIQUES DU VAISSEAU ET LEUR INHIBITION
Cazenave J.P.; Klein-Soyer C.; Beretz A.

Lab. Biol. Pharmacol. Interact. Plaquettes Surf. Vasc. Artif., Serv.
Hemostase Thromb., Cent. Reg. Transfus. Sang., F-67085 Strasbourg Cedex
France

Nouvelle Revue Francaise d'Hematologie (NOUV. REV. FR. HEMATOL.) (France) 1982, 24/3 (167-171)

CODEN: NRFHA

DOCUMENT TYPE: Journal

LANGUAGE: FRENCH SUMMARY LANGUAGE: ENGLISH

Vascular thrombosis is the response to injury of *blood* and the vessel wall. Normal endothelium is a non-thrombogenic surface and is transformed into a thrombogenic surface by *endothelial* injury, the first step in thrombosis and in the development of atherosclerosis and its thrombotic complications. Many agents may injure the *endothelial* cells leading to at least three types of lesions: *endothelial* desquamation, local increase in *endothelial* turnover without de-endothelialization, *endothelial* dysfunction. The study of the factors controlling the functions of normal *endothelial* cells, their *proliferation* and their pathological modifications is possible with the use of human *endothelial* *cell* *culture*. Local generation of thrombin increases the thrombogenicity of the subendothelium and the accumulation of platelets, an effect inhibited by heparin. Thrombin binds specifically to the...

...by aspirin increases the size of the thrombus containing platelets and fibrin. The thrombogenic response of the vessel wall varies according to the nature of *endothelial* injury: a lesion causing removal of the endothelium and followed by adhesion of a single layer of platelets; chronic or repeated injury giving rise to...
?ds

Set	Items	Description
S1	54127	(ENDOTHELIAL) (S) (BLOOD OR MONONUCLEAR)
S2	10903	S1 (S) (EXPANDING OR PROLIFERATING OR PROLIFERATION OR ACTIVATING OR ACTIVATION)
S3	26	S2 AND (ENDOTHELIAL (W) CELL (W) CULTURE)
S4	13	RD (unique items)
S5	0	S4 AND (COLLAGEN OR VEGF)
S6	0	S4 AND (BUFFY (W) COAT)
?s (endothelial)		(s) (peripheral (w) blood)
	275006	ENDOTHELIAL
	859961	PERIPHERAL
	4471889	BLOOD
S7	4128	(ENDOTHELIAL) (S) (PERIPHERAL (W) BLOOD)
?s s7 (s)		(buffy (w) coat (w) cell?)
Processing		
	4128	S7
	4685	BUFFY
	43128	COAT
	7595143	CELL?
S8	0	S7 (S) (BUFFY (W) COAT (W) CELL?)
?s (endothelial (w) cell (w) culture) and ((buffer (w) coat) or (mononuclear))		
	275006	ENDOTHELIAL
	5915079	CELL
	1103935	CULTURE
	560	ENDOTHELIAL (W) CELL (W) CULTURE.
	142599	BUFFER
	43128	COAT
	9	BUFFER (W) COAT
	149088	MONONUCLEAR
S9	23	(ENDOTHELIAL (W) CELL (W) CULTURE) AND ((BUFFER (W) COAT) OR (MONONUCLEAR))
?s s9 and (VEGF or collagen)		
	23	S9
	19343	VEGF
	241395	COLLAGEN
S10	0	S9 AND (VEGF OR COLLAGEN)

?rd s9
...completed examining records
S11 10 RD S9 (unique items)
?s s11 not s4
10 S11
13 S4
S12 8 S11 NOT S4
?t s12/3,k/all

12/3,K/1 (Item 1 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

08338824 95087722 PMID: 7995370

Isolation and culture of human bone marrow endothelial cells.

Schweitzer C M; van der Schoot C E; Drager A M; van der Valk P;
Zevenbergen A; Hooibrink B; Westra A H; Langenhuijsen M M
Department of Hematology, Free University Hospital, Amsterdam, The
Netherlands.

Experimental hematology (UNITED STATES) Jan 1995, 23 (1) p41-8,
ISSN 0301-472X Journal Code: 0402318

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

DB 145, E96

... immunomagnetic beads. FACS sorting gave the best results as
contamination with other cells did not occur. After density-gradient
centrifugation of bone marrow aspirates, the *mononuclear* cell (MNC)
fraction was depleted for T cells, B cells, and myeloid cells by
immunomagnetic separation. Further enrichment of endothelial cells was
achieved by FACS...

... showed strong intracytoplasmic von Willebrand factor positivity.
Ultrastructural analysis revealed cells with endothelial characteristics.
Cells were cultured in fibronectin-coated, 24-well culture plates in
endothelial-*cell* *culture* medium or long-term bone marrow culture
medium. After 1 to 3 weeks of culture, a monolayer of spindle-shaped cells
developed expressing endothelial cell...

12/3,K/2 (Item 2 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

07309255 92241240 PMID: 1572325

**In vitro analysis of pulmonary inflammation using rat lung organ
cultures.**

Warren J S; Barton P A

Department of Pathology, University of Michigan Medical School, Ann Arbor
48109-0602.

Experimental lung research (UNITED STATES) Jan-Mar 1992, 18 (1)
p55-67, ISSN 0190-2148 Journal Code: 8004944

Contract/Grant No.: HL-40526; HL; NHLBI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...cultures with recombinant human tumor necrosis factor (rhTNF) resulted
in a protein synthesis-dependent three- to fourfold increase in
adhesiveness for neutrophils. Time course and *mononuclear* leukocyte
binding experiments revealed that TNF-induced rat lung adhesiveness peaks
at 4 h and is largely neutrophil-specific. Agonist-induced activation of
neutrophils in the presence of [3H]leucine-labeled organ cultures resulted
in lung injury as assessed by radioisotope release. These observations are
consistent with *endothelial* *cell* *culture* data that indicate that
TNF-induced endothelium exhibits a protein synthesis-dependent increase in

adhesiveness for neutrophils. These data validate rat lung organ cultures as...

; Cadmium--pharmacology--PD; Cell Adhesion--physiology--PH; Cell Separation; Leukocytes, *Mononuclear*--cytology--CY; Lung--cytology--CY; Lung--drug effects--DE; Lung--pathology--PA; Neutrophils--cytology--CY; Neutrophils--drug effects--DE; Organ Culture; Rats; Temperature

12/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

06644359 90341948 PMID: 2143317

The vascular endothelial cell is central to xenogeneic immune reactivity.

Haisch C E; Lodge P A; Huber S A; Thomas F T

Department of Surgery, University of Vermont, Burlington 05405.

Surgery (UNITED STATES) Aug 1990, 108 (2) p306-11, ISSN 0039-6060

Journal Code: 0417347

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... is involved in both humoral and cellular aspects of xenograft rejection. To study this phenomenon murine VEC and splenocytes were used in a mixed lymphocyte/*endothelial* *cell* *culture* and in a mixed lymphocyte culture with human peripheral blood *mononuclear* cells as responders. The VEC is a much better stimulator than the splenocyte. Removal of macrophages and B cells from the human peripheral blood *mononuclear* cells has no effect on the response to the VEC. The VEC acts as a target for humoral responses in the complement-dependent cytotoxicity and....

12/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

05668163 88078393 PMID: 3257150

Vascular endothelial cells and granulopoiesis: interleukin-1 stimulates release of G-CSF and GM-CSF.

Zsebo K M; Yuschenkoff V N; Schiffer S; Chang D; McCall E; Dinarello C A; Brown M A; Altrock B; Bagby G C

Amgen, Thousand Oaks, CA 91320.

Blood (UNITED STATES) Jan 1988, 71 (1) p99-103, ISSN 0006-4971

Journal Code: 7603509

Contract/Grant No.: CA 36306; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Cultured *mononuclear* phagocytes produce soluble factors that stimulate endothelial cells to release GM-colony-stimulating activity (GM-CSA). One such factor was recently identified as interleukin 1...

... neutralizing rabbit anti-human GM-CSF antibody partially reduced the activity of the media in the human GM-colony growth assay. G-CSF radioimmunoassay of *endothelial* *cell* *culture* supernatants and Northern blot analysis of endothelial cell cytoplasmic RNA for GM-CSF gene transcripts confirmed that IL 1 induced expression of both G-CSF...

12/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

04557866 84240298 PMID: 6736253

Bovine aortic endothelial cells elaborate an inhibitor of the generation of lipopolysaccharide-stimulated human blood monocyte procoagulant

activity.

Goodnough L T; Kleinhenz M E; Goldsmith G H; Ziats N P; Robertson A L
Journal of clinical investigation (UNITED STATES) Jul 1984, 74 (1)
p75-81, ISSN 0021-9738 Journal Code: 7802877
Contract/Grant No.: HL01661; HL; NHLBI; HL20924; HL; NHLBI; HL25922; HL;
NHLBI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

We examined the effect of bovine aortic *endothelial* *cell* *culture* supernatants upon the generation of procoagulant activity by human blood monocytes. Confluent endothelial monolayers were cultured for up to 96 h. At timed intervals, culture supernatants were collected and incubated for 5 h with lipopolysaccharide-stimulated human peripheral blood *mononuclear* cells. The procoagulant activity of *mononuclear* cell lysates was determined in a one-stage clotting assay. In five experiments, procoagulant activity with culture supernatant (time 0) was 2,294 +/- 761 U/ml (mean +/- SEM). Culture supernatants from endothelial cells incubated for 24-96 h strongly inhibited *mononuclear* cell generation of procoagulant activity. Indomethacin (10 microm) added to endothelial cells delayed the appearance of procoagulant inhibitor for 72 h. Bovine aortic smooth muscle...

... heat stable, effective at 1:50 dilution, soluble, and acid sensitive, with a molecular weight of less than 1,500. Further studies on subpopulations of *mononuclear* cells demonstrated that endothelial inhibitor selectively decreased the generation of monocyte procoagulant activity and interfered with T lymphocyte amplification of monocyte production of procoagulant activity...

12/3,K/6 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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12384062 BIOSIS NO.: 200000137564

Monocyte-derived dendritic cells are permissive to the complete replicative cycle of human cytomegalovirus.

AUTHOR: Riegler S; Hebart H; Einsele H; Brossart P; Jahn G; Sinzger C(a)
AUTHOR ADDRESS: (a)Department of Medical Virology, University of Tuebingen, Calwerstrasse 7/6, D-72076, Tuebingen**Germany
JOURNAL: Journal of General Virology. 81 (2):p393-399 Feb., 2000
ISSN: 0022-1317
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

...ABSTRACT: of infectious progeny virus were analysed in infected immature DC cultures. Immature DC were 80-90 % susceptible to HCMV strains that had been propagated in *endothelial* *cell* *culture*, whereas the infection rate was negligible with fibroblast-adapted HCMV strains. Immature DC infection resulted in expression of viral immediate early, early and late genes...

DESCRIPTORS:

ORGANISMS: PARTS ETC: PBMC {peripheral blood *mononuclear* cell...

12/3,K/7 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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04344046 BIOSIS NO.: 000078073590

BOVINE AORTIC ENDOTHELIAL CELLS ELABORATE AN INHIBITOR OF THE GENERATION OF LIPO POLY SACCHARIDE STIMULATED HUMAN BLOOD MONOCYTE PRO COAGULANT

ACTIVITY

AUTHOR: GOODNOUGH L T; KLEINHENZ M E; GOLDSMITH G H JR; ZIATS N P;
ROBERTSON A L JR
AUTHOR ADDRESS: DEPARTMENT OF MEDICINE, CASE WESTERN RESERVE UNIVERSITY,
SCHOOL OF MEDICINE, CLEVELAND, OHIO 441065.
JOURNAL: J CLIN INVEST 74 (1). 1984. 75-81. 1984
FULL JOURNAL NAME: Journal of Clinical Investigation
CODEN: JCINA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: The effect of bovine aortic *endothelial* *cell* *culture* supernatants upon the generation of procoagulant activity by human blood monocytes was examined. Confluent endothelial monolayers were cultured for up to 96 h. At timed intervals, culture supernatants were collected and incubated for 5 h with lipopolysaccharide-stimulated human peripheral blood *mononuclear* cells. The procoagulant activity of *mononuclear* cell lysates was determined in a 1-stage clotting assay. In 5 experiments, procoagulant activity with culture supernatant (time 0) was 2294 \pm 761 U/ml (mean \pm SEM). Culture supernatants from endothelial cells incubated for 24-96 h strongly inhibited *mononuclear* cell generation of procoagulant activity. Indomethacin (10 μ M) added to endothelial cells delayed the appearance of procoagulant inhibitor for 72 h. Bovine aortic smooth...

...activity. The inhibitor was heat stable, effective at 1:50 dilution, soluble and acid sensitive, with a MW of < 1500. Further studies on subpopulations of *mononuclear* cells demonstrated that endothelial inhibitor selectively decreased the generation of monocyte procoagulant activity and interfered with T lymphocyte amplification of monocyte production of procoagulant activity...

12/3,K/8 (Item 3 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
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03011754 BIOSIS NO.: 000070037372

HLA-D REGION PRODUCTS ARE EXPRESSED IN ENDOTHELIAL CELLS DETECTION BY PRIMED LYMPHOCYTE TYPING

AUTHOR: MOEN T; MOEN M; THORSBY E
AUTHOR ADDRESS: VEVSTYPELAB., PILESTREDET 32, OSLO 1, NORW.
JOURNAL: TISSUE ANTIGENS 15 (2). 1980. 112-122. 1980
FULL JOURNAL NAME: Tissue Antigens
CODEN: TSANA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: The mixed lymphocyte *endothelial* *cell* *culture* was studied by the primed lymphocyte typing (PLT) technique. By comparing the HLA-D/DR specificity of the secondary response when using peripheral blood *mononuclear* cells (PBM) or endothelial cells from umbilical cords for priming or restimulation of lymphocytes, it was found that PBM from newborns would induce a clear...
?ds

Set	Items	Description
S1	54127	(ENDOTHELIAL) (S) (BLOOD OR MONONUCLEAR)
S2	10903	S1 (S) (EXPANDING OR PROLIFERATING OR PROLIFERATION OR ACTIVATING OR ACTIVATION)
S3	26	S2 AND (ENDOTHELIAL (W) CELL (W) CULTURE)
S4	13	RD (unique items)
S5	0	S4 AND (COLLAGEN OR VEGF)
S6	0	S4 AND (BUFFY (W) COAT)
S7	4128	(ENDOTHELIAL) (S) (PERIPHERAL (W) BLOOD)
S8	0	S7 (S) (BUFFY (W) COAT (W) CELL?)

S9 23 (ENDOTHELIAL (W) CELL (W) CULTURE) AND ((BUFFER (W) COAT) -
OR (MONONUCLEAR))
S10 0 S9 AND (VEGF OR COLLAGEN)
S11 10 RD S9 (unique items)
S12 8 S11 NOT S4
?logout

25nov02 16:18:14 User259876 Session D436.2
\$4.88 1.525 DialUnits File155
\$2.94 14 Type(s) in Format 3
\$2.94 14 Types
\$7.82 Estimated cost File155
\$9.17 1.638 DialUnits File5
\$10.50 6 Type(s) in Format 3
\$10.50 6 Types
\$19.67 Estimated cost File5
\$18.08 2.009 DialUnits File73
\$2.50 1 Type(s) in Format 3
\$2.50 1 Types
\$20.58 Estimated cost File73
OneSearch, 3 files, 5.172 DialUnits FileOS
\$2.81 TELNET
\$50.88 Estimated cost this search
\$51.28 Estimated total session cost 5.273 DialUnits

Status: Signed Off. (13 minutes)